

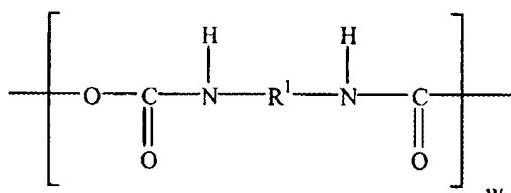
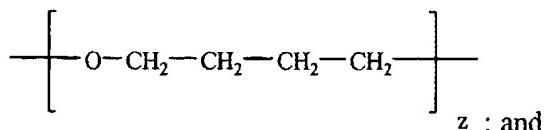
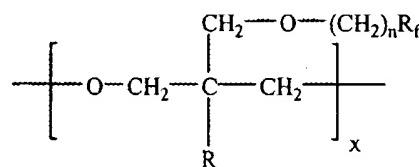
Amendments to the Claims:

This listing of claims will replace all prior versions, and listings of claims in the application:

Listing of Claims:

1-19 (canceled)

1 ~~20~~ (currently amended): A fluorinated polyurethane elastomer having FOX/THF
2 segments and comprising a mixture of monomeric repeat units having the general formulae:



6 wherein:

- 7 each n is independently selected and is a number from 1 to 3;
8 each R is independently selected from the group consisting of methyl and ethyl;
9 each R_f is independently selected from the group consisting of linear and
10 branched perfluorinated alkyls and isoalkyls having from 1 to about 20
11 carbons, and oxa-perfluorinated polyethers having from about 4 to about
12 60 carbons;
13 x is about 10 to about 250;
14 z is 1 to about 250;

15 R¹ R₄ is a divalent hydrocarbyl radical; and
16 w is 1 to about 50.

1 21 (previously presented): The fluorinated polyurethane elastomer in accordance
2 with claim 20, wherein said fluorinated polyurethane elastomer is a fluorinated thermoset
3 polyurethane elastomer.

1 22 (previously presented): The fluorinated polyurethane elastomer in accordance
2 with claim 20, wherein said fluorinated polyurethane elastomer is a fluorinated thermoplastic
3 polyurethane elastomer.

1 23 (previously presented): The fluorinated polyurethane elastomer in accordance
2 with claim 20, wherein the isocyanate segment is produced from a member selected from the
3 group consisting of hexamethylene diisocyanate (HDI), isophorone diisocyanate (IPDI), 4,4'-
4 methylene diphenyl-isocyanate (MDI), polymeric MDI, toluene diisocyanates, hydrogenated
5 MDI (HMDI), polymeric HDI, trimethylhexane diisocyanate and mixtures of at least two
6 thereof.

1 24 (previously presented): The fluorinated polyurethane elastomer in accordance
2 with claim 20, further comprising a cross-link formed from a cross-linking agent or a chain-
3 extender selected from the group consisting of low molecular weight polyols and polyamines.

1 25 (previously presented): The fluorinated polyurethane elastomer in accordance
2 with claim 24, wherein said cross-linking agent is selected from the group consisting of
3 trimethylolpropane, pentaerythritol, trimethylolethane, triethanolamine, 1,4-butanediamine,
4 xylene diamine, diethylenetriamine, methylene dianiline and diethanolamine.

1 26 (previously presented): The fluorinated polyurethane elastomer in accordance
2 with claim 24, wherein said chain extender is a member selected from the group consisting of
3 1,4-butanediol; 1,3-propanediol; and benzenedimethanol.

1 ⁸
5 ²⁷ (previously presented): The fluorinated polyurethane elastomer in accordance
2 with claim ²⁴, wherein said chain extender is 1,4-butanediol.

1 ⁹
5 ²⁸ (previously presented): The fluorinated polyurethane elastomer in accordance
2 with claim ²⁶, wherein the fluorinated polyether segment is produced from at least one mono-
3 substituted FOX monomer selected from the group consisting of 3-(2,2,2-
4 trifluoroethoxymethyl)-3-methyloxetane; 3-(2,2,3,3,4,4,4-heptafluorobutoxymethyl)-3-
5 methyloxetane; 3-(2,2,3,3,4,4,5,5,6,6,7,7,8,8, 8-pentadecafluoroctyloxymethyl)oxetane; 3-
6 (3,3,4,4,5,5,6,6,7,7,8,8,8-trideca-fluoroctyloxymethyl)-3-methyloxetane; 3-(3,3,4,4,5,5,6,
7 6,7,7,8,8,9,9,10,10,10-heptadecafluorododecyloxymethyl)-3-methyloxetane; and 3-
8 (3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,12-heneicosafuorododecyloxymethyl)-3-
9 methyloxetane.